

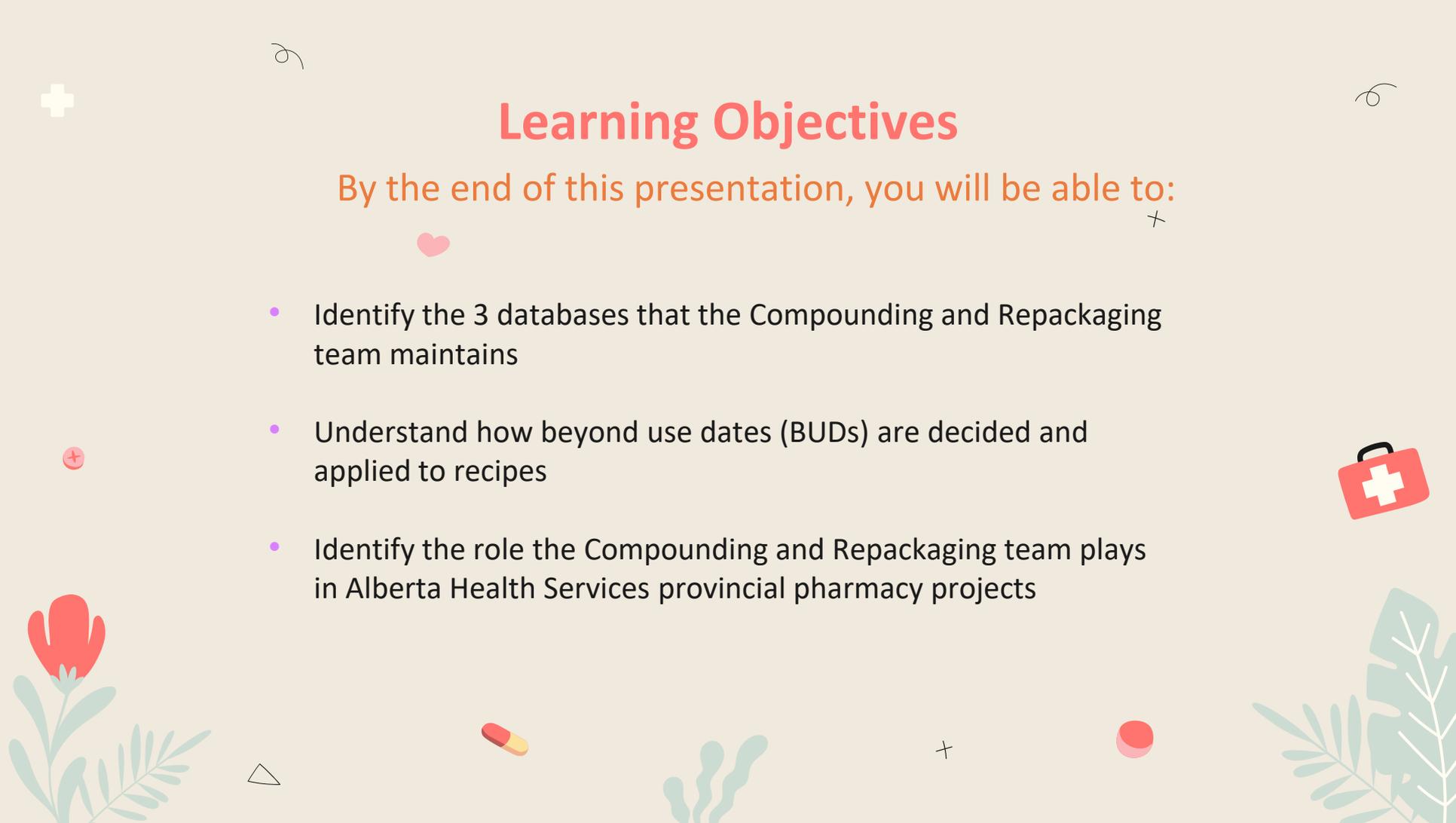


# The Mix Masters: Behind the Scenes of the Compounding & Repackaging Team



# Presenter/Speaker Personal Disclosure

- Presenter's Name: Nikki Cornell
  - I have no current or past relationships with commercial entities
- Speaking Fees for current program:
  - I have received a speaker's fee from PTSA for this learning activity



# Learning Objectives

By the end of this presentation, you will be able to:

- Identify the 3 databases that the Compounding and Repackaging team maintains
- Understand how beyond use dates (BUDs) are decided and applied to recipes
- Identify the role the Compounding and Repackaging team plays in Alberta Health Services provincial pharmacy projects

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Mentimeter

Commented

# What is your knowledge of the AHS Compounding & Repackaging team?

0

I am very familiar with the team.

0

I have heard of them, but I don't know the details.

0

This team is brand new to me.



Menti

My first presentation



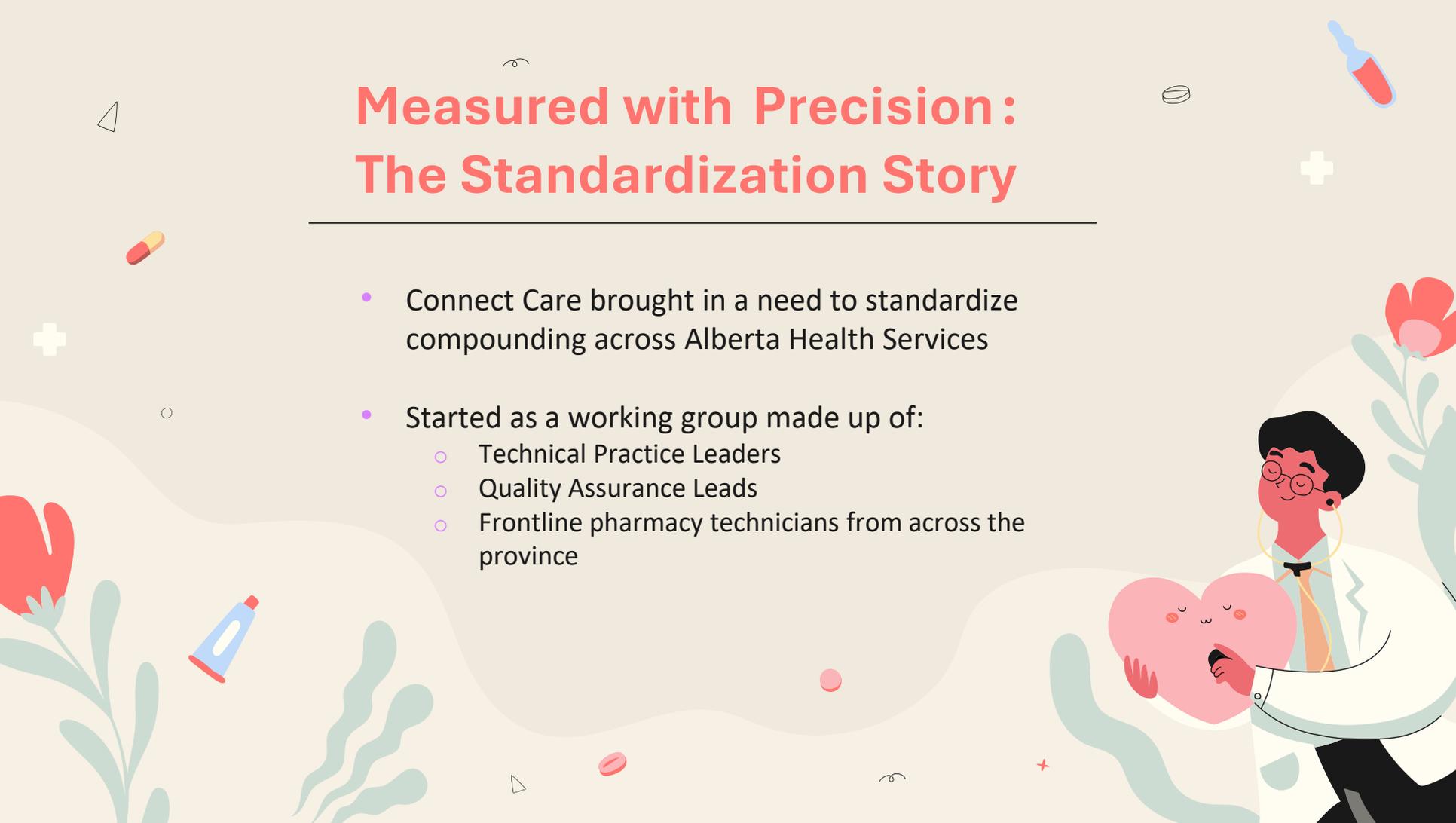
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# Measured with Precision: The Standardization Story

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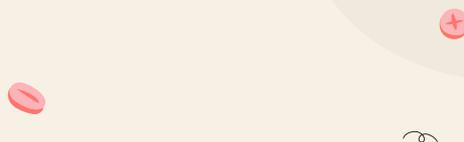
- Connect Care brought in a need to standardize compounding across Alberta Health Services
- Started as a working group made up of:
  - Technical Practice Leaders
  - Quality Assurance Leads
  - Frontline pharmacy technicians from across the province





# Standardization Principles

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- Continuous Infusion Preparations
  - Narcotic Infusion Preparation
  - Diluents in Sterile Preparations
  - DEHP-free Diluent Bags for Pediatrics
  - Magnesium Sulfate Concentration Standardization
  - Pediatric Ready to Administer (RTA) Stock Bag Preparation
- 

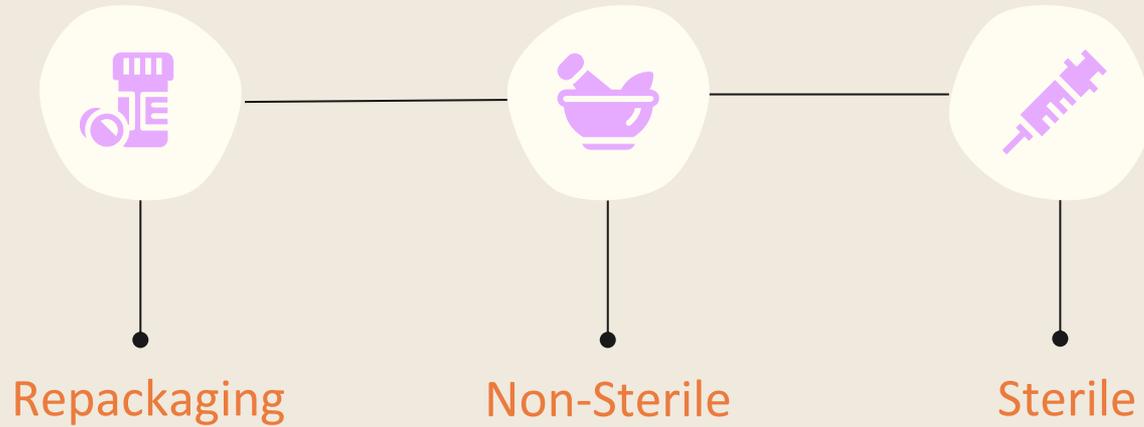
# Today's Team

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Currently consists of:

- 13 pharmacy technicians
- 11 pharmacists
- Across the province, urban and rural

# Recipe Databases

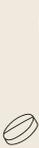




# Beyond Use Dates (BUDs)

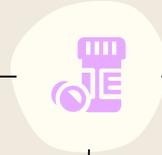
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**Date after which a compounded preparation shall not be used; determined from the date when the preparation is compounded.**

- 
- National Association of Pharmacy Regulatory Authorities (NAPRA)
  - United States Pharmacopeia (USP) Guidelines
  - Alberta College of Pharmacists (ACP)
  - Drug Monographs
  - Stability Studies



# Repackaging



## MONOGRAPH

- Formulation
- Storage
- Splitting info
- Shelf life

## FORMULARY

- Only build for formulary meds
- Non-formulary are typically done at site level

## CLASSIFICATION

- Chemical
- Benzodiazepines/Controlled Drug/Narcotic
- Highly Allergenic
- Hazards

# Repackaging

## NOMENCLATURE

- lansoprazole, delayed release 30 mg tablet
- methylphenidate, long acting (Concerta) 27 mg tablet
- cephaLEXIN 50 mg/mL oral liquid (Commercial)

## SMART TEXT

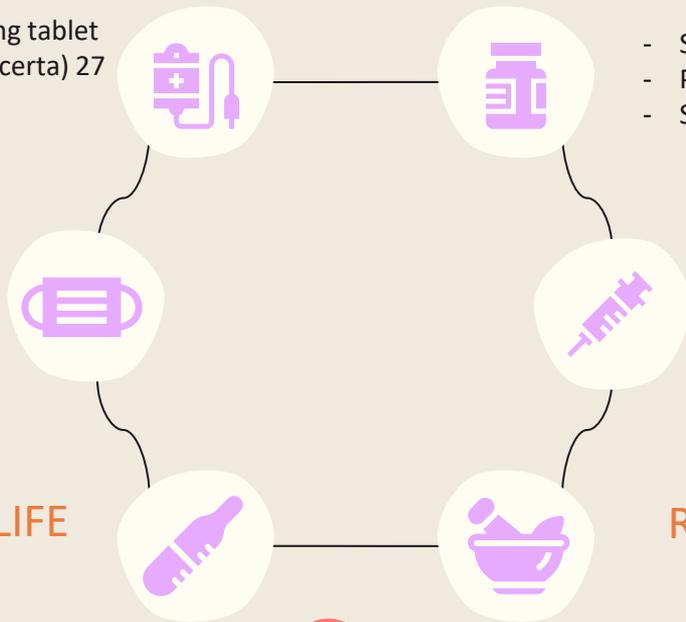
- Special Handling
- Packaging
- Storage/Auxiliaries

## SPLITTING

## CUSTOM SHELF LIFE

## DIN/GTIN

## REFERENCES



## Temporary Repackaging Worksheet

Generic Name and Base Strength:
Repackage To:
Type: Choose an item.      Dosage Form: Choose an item.
Standard Packaging Material: Choose an item.
Is this part of an AHS protocol? Choose an item. <i>If yes, please attach a copy of the protocol with completed worksheet template to portal request</i>

### Source Ingredient(s)

Manufacturer	DIN	Strength	Original Container Type	Shelf Life (Days)	Can it be Repackaged?	Can it be split?	Formulary Status
			Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.

### Recipe

Classification:	<ul style="list-style-type: none"><li>Choose an item.</li><li>Other:</li></ul>
Special Handling Instructions:	<ul style="list-style-type: none"><li></li><li>Other:</li></ul> <p><i>*A list of Special Handling Instructions is located at the end of this document for items listed under Classification</i></p>
Storage Requirements:	<ul style="list-style-type: none"><li>Choose an item.</li><li>Other:</li></ul>
Auxiliary Label(s): <i>Auxiliary instructions will be included with the exception of site specific and instructions.</i>	<ul style="list-style-type: none"><li>Choose an item.</li><li>Other:</li></ul>

Insert Reference(s) as PDF:

*\*Product monograph where possible*

Worksheet Created By(technician or pharmacist):

Date: [Click here to enter a date.](#)

Worksheet and Reference Checked By (technician or pharmacist):

Date: [Click here to enter a date.](#)

# Non-Sterile Compounding



## DRUG INFORMATION

- Transferred to CNR

## FLAG AS NEEDED

- High Alert
- Temporary Recipes
- Risk Level

## REFERENCES/BUD

- Pharmacist Collaboration

# Non-Sterile Compounding

## NOMENCLATURE

- hydroxyUREA oral suspension in Ora-Blend (prepared with powder) 100 mg/mL
- acetaZOLAMIDE oral suspension in Ora-Blend SF 25 mg/mL

## HIGH ALERT



## CAS NUMBERS

## STANDARD WORDING

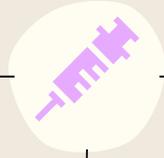
## RISK LEVEL

## BUD

- Stability Study Data
- Maximum BUD set in absence of data



# Sterile Compounding



## CNR vs DISP PREP

- Batching or patient specific

## RESOURCES

- Hazardous List
- Standard Concentration
- Parenteral Manual

## REFERENCES/BUD

- Pharmacist Collaboration

# Sterile Compounding

## NOMENCLATURE

- ceFAZolin 1 g in D5W 50 mL bag (PHARM)
- HYDROmorphine 20,000 mcg in NaCl 0.9% 100 mL bag PCA (200 mcg/mL) (alternate diluent) (PHARM)

## INFUSION TYPE

## INGREDIENTS

## NOTES

## RECONSTITUTION

## BUD

- Stability Study Data
- Category 1 vs Category 2
- Risk Level

## Temporary Sterile Compounding (CSP) Worksheet

Compound Name:

CNR/Dispense Prep:

Patient Population:  
(Adult, Peds, Neonate)

Route:

Infusion Type:  
(Continuous, Intermittent,  
Stock Solution)

BUD:

Worksheet Created by:  
(Tech or Pharmacist)

Worksheet Checked by:  
(Pharmacist only)

### Ingredients

Item / Strength	Quantity	DIN	Manufacturer	Lot Number	Expiration
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### Recipe

Remove Volume:

Reconstitution Instructions:

Preparation Instructions:

Auxilliary and Label Information:

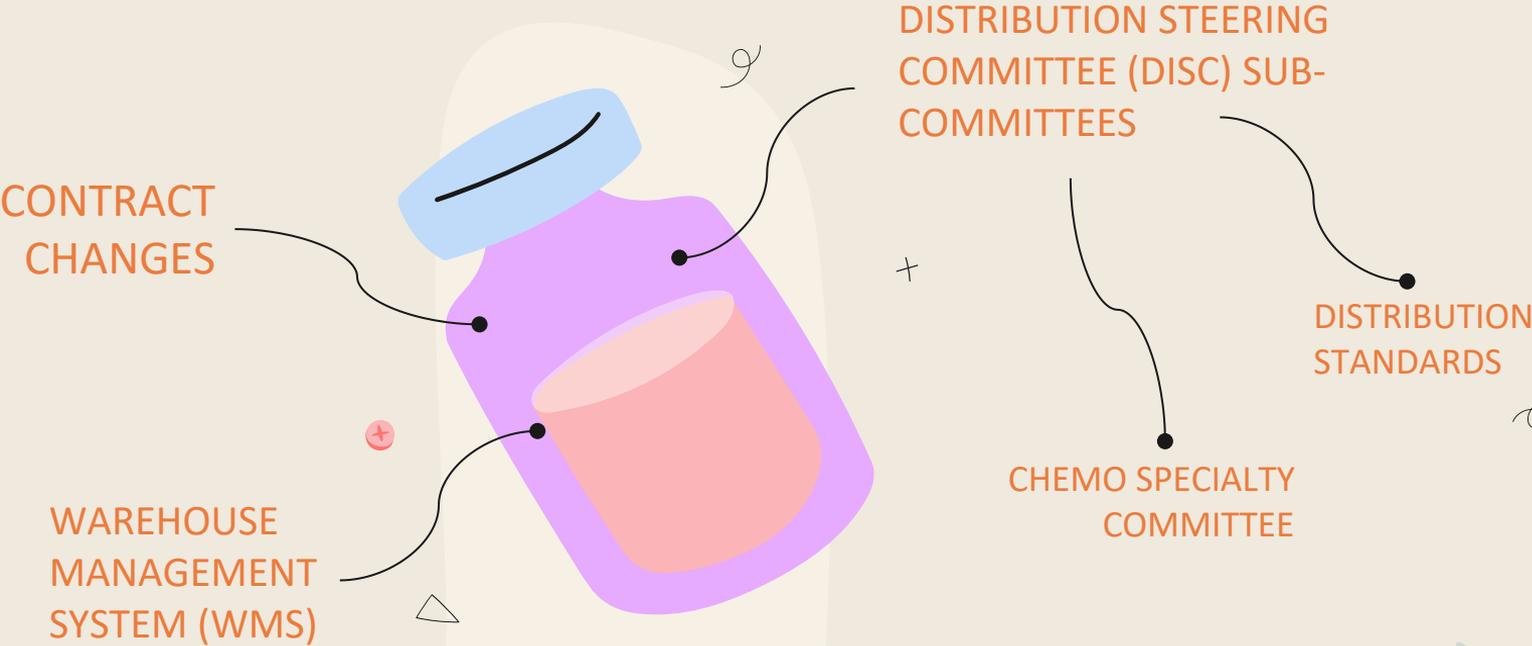
Description and Notes:

Minimum & Maximum Concentration:

Partial vial BUD:

Final product appearance:

# Provincial Working Groups



# Provincial Projects

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## AHFS Class 10

Hazardous compounding  
worksheets

## Drug Shortages

Updates to fill gaps

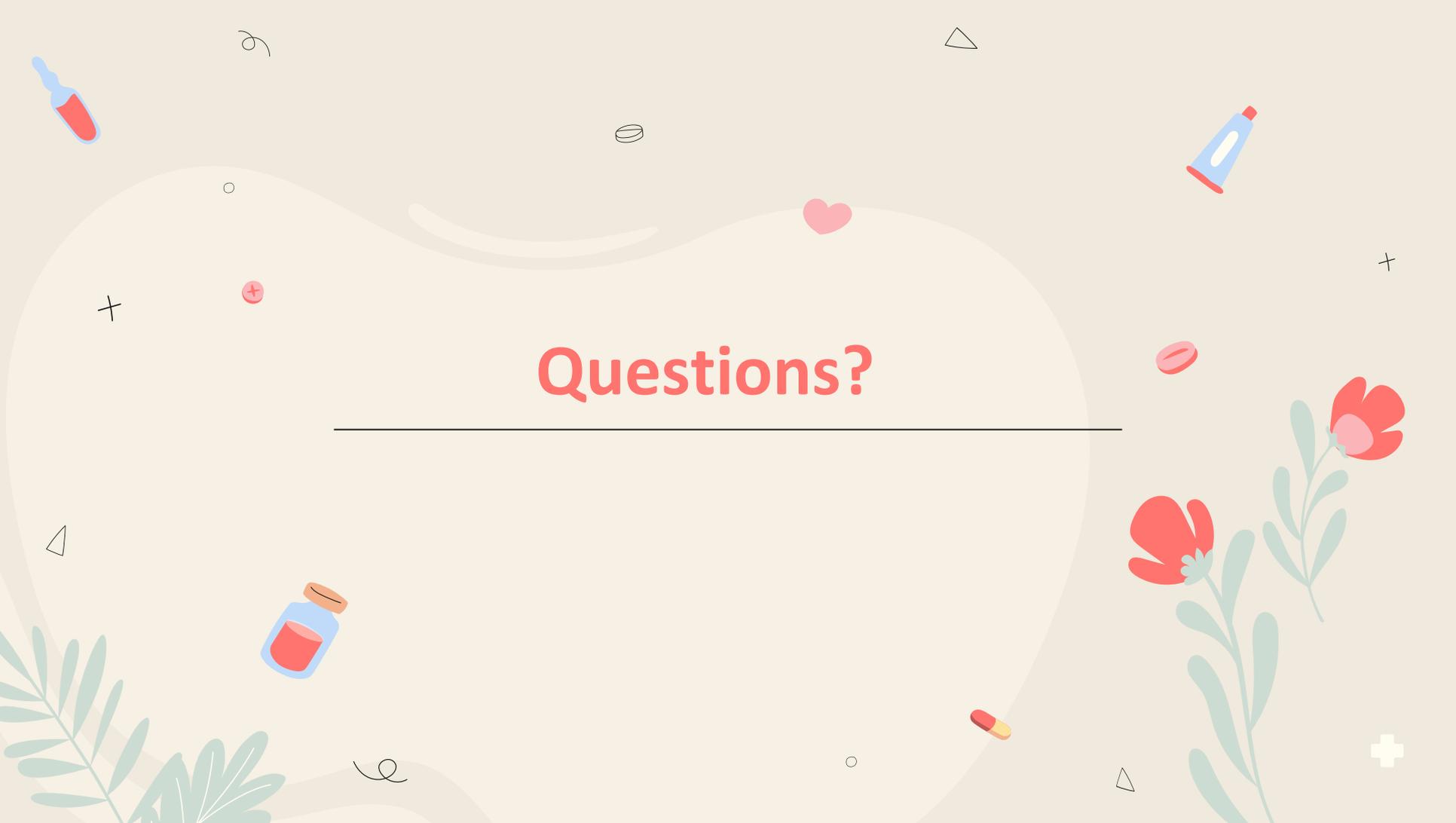
## Stability Studies

BUD Testing with Technical  
Practice

## WMS

Helping to interface with  
Pharmacy Connect





Questions?

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